

# RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS

Valluru-523272

(Affiliated to JNTU, KAKINADA)

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## SMARTINTERNZ VIRTUAL INTERNSHIP PROGRAM-2026



**TITLE: ShopSmart: Your Digital Grocery Store Experience**

**Submitted by**

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**Date of Submission:** 20-02-2026

## **CERTIFICATE**

This is to certify that the project report titled “**ShopSmart: Your Digital Grocery Store Experience**” is a bona fide work carried out by the following students:

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- **Shaik Rijwana Bhanu (228B1A0522)**
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- **Devalla Dinesh (228B1A0533)**

of **RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS**, in partial fulfillment of the requirements for the SmartInternz Virtual Internship Program-2026, during the period from **16-12-2025 to 20-02-2026**.

The work embodied in this project report has not been submitted to any other institution for the award of any degree or diploma.

### **Endorsements:**

**Project Guide:** Mr.P.Suresh

**Head of Department:** Mr.Ch.Hari Krishna

**Principal:** Dr.K.V.Subrahmanyam

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# **1.INTRODUCTION**

## **ShopSmart: Your Digital Grocery Store Experience**

"Welcome to our Grocery Web App, your one-stop shop for all your grocery needs! With our user-friendly interface and wide selection of high-quality products, we aim to make your grocery shopping experience convenient and enjoyable. Whether you're looking for fresh produce, pantry staples, or household essentials, our app has you covered. Explore our virtual aisles, add items to your cart with ease, and have your groceries delivered right to your doorstep. Experience the future of grocery shopping with our Grocery Web App today!"

### **DESCRIPTION:**

Our Grocery Web App is more than just a convenient way to shop for groceries—it's a comprehensive solution designed to enhance every aspect of your shopping experience. Imagine a virtual supermarket at your fingertips, offering an extensive selection of high-quality products that cater to your every need.

From fresh produce sourced directly from local farms to pantry staples and household essentials, our app provides everything you need to keep your kitchen well-stocked. Our user-friendly interface ensures that you can navigate our virtual aisles effortlessly, easily finding what you're looking for and adding items to your cart with a simple click.

But the convenience doesn't stop there. With our app, you can schedule deliveries at your preferred time, ensuring that your groceries arrive when it's most convenient for you. Say goodbye to long lines and tedious grocery trips—our app brings the supermarket to you, saving you time and hassle.

We understand that everyone's dietary preferences and requirements are different, which is why our app offers a wide range of options, including organic, gluten-free, and vegan products. You can also discover new and exciting products through our app, making grocery shopping an adventure rather than a chore.

Our commitment to quality extends beyond our products to our customer service. Our dedicated team is always available to assist you with any questions or concerns you may have, ensuring that your shopping experience is nothing short of exceptional.

Experience the future of grocery shopping with our Grocery Web App. Download it today and discover the convenience of fresh, high-quality groceries delivered right to your doorstep.

## **2. PROJECT OVERVIEW**

### **Scenario Based Case Study:**

Meet Priya, a busy professional with a hectic schedule who values convenience and efficiency in her daily life. Priya loves to cook and prefers using fresh ingredients in her meals. However, her tight schedule often makes it challenging for her to find the time to visit grocery stores regularly.

**Priya's Solution:** The Grocery Web App. Priya discovers the Grocery Web App, a one-stop solution for all her grocery needs. The app offers a wide selection of high-quality products, including fresh produce, pantry staples, and household essentials, all available at her fingertips.

#### **1. User Registration and Authentication:**

- Priya registers an account on the app, providing her basic details and preferences. She logs in securely using her credentials, ensuring her privacy and security.

#### **2. Product Listings:**

- Priya browses through the app's extensive list of products, organized neatly into categories for easy navigation. She can quickly find what she's looking for and add items to her virtual cart with a simple tap.

#### **3. Personalized Recommendations:**

- The app uses Priya's purchase history and preferences to provide personalized recommendations, helping her discover new products and brands that align with her tastes.

#### **4. Convenient Delivery Options:**

- Priya can choose to have her groceries delivered to her doorstep at a time that suits her schedule. She can also select express delivery for urgent needs.

#### **5. Secure Payment Gateway:**

- The app integrates with a secure payment gateway, allowing Priya to pay for her groceries online using various payment methods, including credit/debit cards and digital wallets.

#### **6. Order Tracking:**

- Priya receives a confirmation of her order along with a tracking link that allows her to monitor the status of her delivery in real-time.

#### **7. Customer Support:**

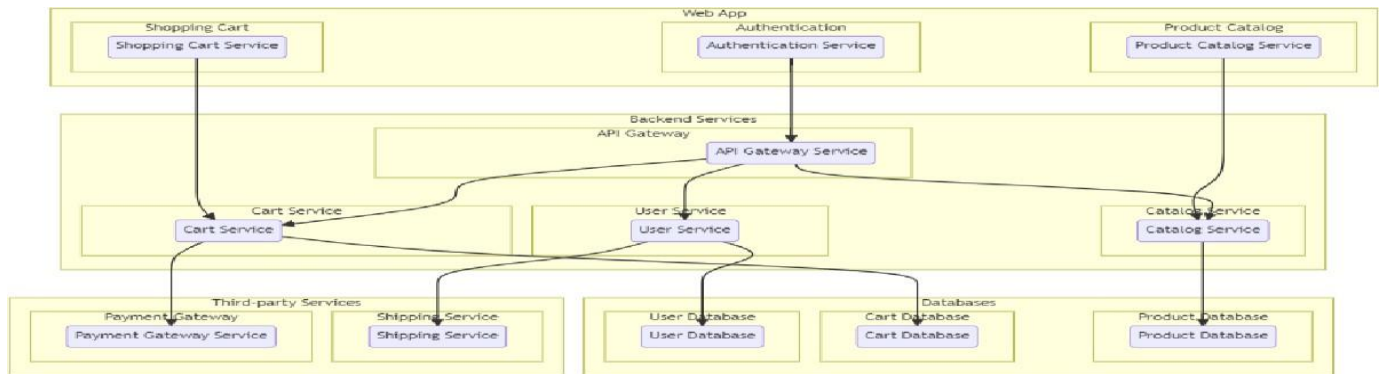
- The app provides excellent customer support, with a dedicated team available to assist Priya with any queries or concerns she may have.

#### **8. Priya's Experience:**

- Thanks to the Grocery Web App, Priya can now enjoy the convenience of having fresh, high-quality groceries delivered right to her doorstep, saving her time and effort. She can focus.

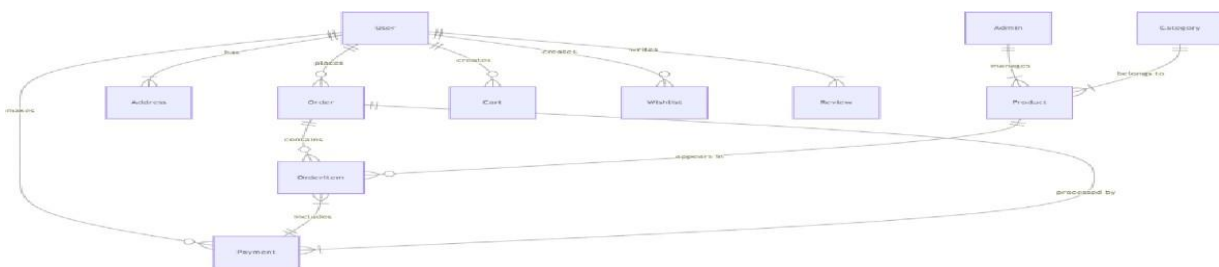
### 3. ARCHITECTURE:

#### TECHNICAL ARCHITECTURE:



The technical architecture of a grocery-webapp app typically involves a client-server model where the frontend represents the client and the backend serves as the server. The frontend is responsible for user interface, interaction, and presentation, while the backend handles data storage, businesslogic, and integration with external services like payment gateways and databases. Communication between the frontend and backend is typically facilitated through APIs, enabling seamless data exchange and functionality.

#### ER-Diagram:



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## **Key Features:**

### **Product Catalog:**

- Our grocery-webapp app provides an extensive product catalog with various categories and subcategories. Users can easily search, browse, and filter products based on their preferences, making it effortless to find the desired items.

### **Shopping Cart and Checkout:**

- The app includes a shopping cart feature that enables users to add products, review their cart, and proceed to checkout. The checkout process offers multiple payment options, ensuring a smooth and secure transaction experience.

### **Product Reviews and Ratings:**

- Customers can provide feedback and rate products, helping other users make informed purchasing decisions. This feature fosters a sense of community and trust among users.

### **Order Tracking:**

- Once an order is placed, users can track its status in real-time. They receive updates on order processing, shipping, and delivery, providing transparency and peace of mind.

### **Admin Dashboard:**

- For administrators, our grocery-webapp app offers a comprehensive dashboard to manage products, inventory, orders, and customer information. It provides insights into sales performance, stock levels, and customer analytics, enabling efficient business operations.

### **Order Management:**

- The app manages the order lifecycle, including order placement, tracking, and status updates. Users can view their order history, track shipments, and request returns or cancellations.

### **Search and Filtering:**

- Users can search for products using keywords and apply filters to narrow down the search results based on criteria such as price range, brand, or customer ratings.

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## 4. SET INSTRUCTIONS:

### PRE REQUISITES/ INSTALLATION:

To develop a full-stack Ecommerce App for Furniture Tool using React.js, Node.js, Express.js and MongoDB, there are several prerequisites you should consider. Here are the key prerequisites for developing such an application:

#### **Node.js and npm:**

Install Node.js, which includes npm (Node Package Manager), on your development machine. Node.js is required to run JavaScript on the server side.

- Download: <https://nodejs.org/en/download/>
- Installation instructions: <https://nodejs.org/en/download/package-manager/>

#### **MongoDB:**

Set up a MongoDB database to store hotel and booking information. Install MongoDB locally or use a cloud-based MongoDB service.

- Download: <https://www.mongodb.com/try/download/community>
- Installation instructions: <https://docs.mongodb.com/manual/installation/>

#### **Express.js:**

Express.js is a web application framework for Node.js. Install Express.js to handle server-side routing, middleware, and API development.

- Installation: Open your command prompt or terminal and run the following command: **npm install express**

#### **React.js:**

**React** is a JavaScript library for building client-side applications.  
And Creating Single Page Web-Application

### **Getting Started**

- Create React App is an officially supported way to create single-page React applications. It offers a modern build setup with no configuration.

#### **Quik Start**

```
npm create vite@latest  
cd my-app  
npm install  
npm run dev
```

If you've previously installed create-react-app globally via `npm install -g create-react-app`, we recommend you uninstall the package using `npm uninstall -g create-react-app` or `yarn global remove create-react-app` to ensure that npx always uses the latest version.



### **Create a new React project:**

- Choose or create a directory where you want to set up your React project.
- Open your terminal or command prompt.
- Navigate to the selected directory using the `cd` command.
- Create a new React project by running the following command: `npx create-react-app your-app-name`. Wait for the project to be created:

This command will generate the basic project structure and install the necessary dependencies

### **Navigate into the project directory:**

- After the project creation is complete, navigate into the project directory by running the following command: `cd your-app-name`

### **Start the development server:**

- To launch the development server and see your React app in the browser, run the following command: `npm run dev`
- The `npm start` will compile your app and start the development server.
- Open your web browser and navigate to <https://localhost:5173> to see your React app.

You have successfully set up React on your machine and created a new React project. You can now start building your app by modifying the generated project files in the `src` directory.

Please note that these instructions provide a basic setup for React. You can explore more advanced configurations and features by referring to the official React documentation: <https://react.dev/>

### **HTML, CSS, and JavaScript:**

- Basic knowledge of HTML for creating the structure of your app, CSS for styling, and JavaScript for client-side interactivity is essential.

### **Database Connectivity:**

- Use a MongoDB driver or an Object-Document Mapping (ODM) library like Mongoose to connect your Node.js server with the MongoDB database and perform CRUD (Create, Read, Update, Delete) operations.

### **Front-end Library:**

- Utilize React to build the user-facing part of the application, including products listings, booking forms, and user interfaces for the admin dashboard.

### **Version Control:**

- Use Git for version control, enabling collaboration and tracking changes throughout the development process. Platforms like GitHub or Bitbucket can host your repository.

- Git: Download and installation instructions can be found at: <https://git-scm.com/downloads>

## **Development Environment:**

- Choose a code editor or Integrated Development Environment (IDE) that suits your preferences, such as Visual Studio Code, Sublime Text, or WebStorm.
- Visual Studio Code: Download from <https://code.visualstudio.com/download>
- Sublime Text: Download from <https://www.sublimetext.com/download>
- WebStorm: Download from <https://www.jetbrains.com/webstorm/download>

## **Roles and Responsibility:**

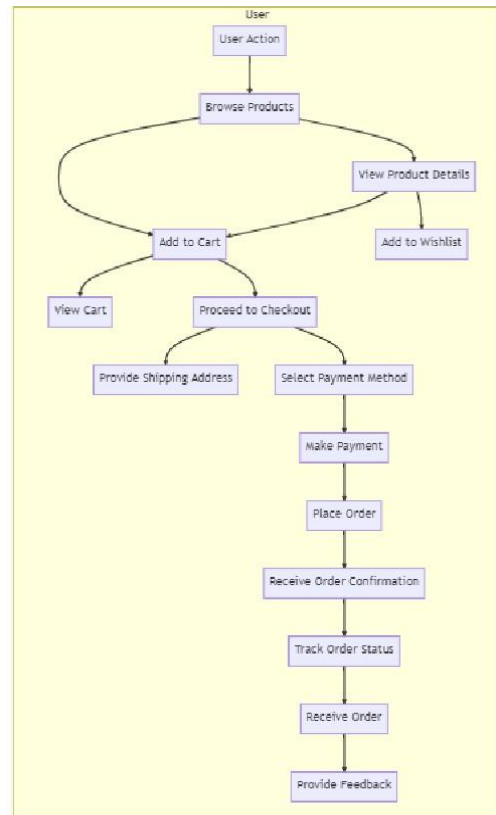
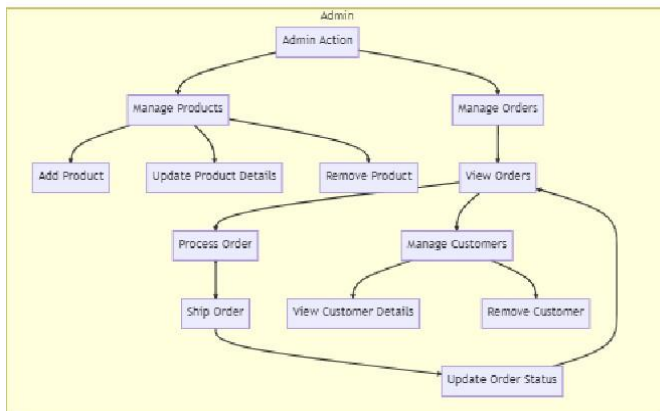
### **User: -**

- Registration and Authentication: Users are responsible for creating an account on the platform and securely logging in to access its features.
- Browsing and Shopping: Users can browse products, add them to their cart, and proceed to checkout for purchasing.
- Payment: Users are responsible for making payments for their orders using the available payment methods.
- Order Management: Users can view their order history, track their deliveries, and manage their account details.
- Feedback and Reviews: Users can provide feedback on products and services and leave reviews to help other users make informed decisions.
- Compliance: Users are expected to adhere to the platform's terms and conditions and privacy policy.

### **Admin: -**

- User Management: Admins can manage user accounts, including creating, updating, and deleting accounts as necessary.
- Product Management: Admins are responsible for managing the platform's product listings, including adding new products, updating existing ones, and removing outdated products.
- Order Management: Admins can view and manage all orders placed on the platform, including processing payments, tracking deliveries, and handling returns or refunds.
- Content Management: Admins can manage the platform's content, including creating and updating informational pages, blog posts, and other content.
- Analytics and Reporting: Admins can generate reports and analyze data to gain insights into the platform's performance and user behavior.
- Compliance and Security: Admins are responsible for ensuring that the platform complies with relevant laws and regulations and that user data is kept secure.
- Customer Support: Admins can provide support to users, including responding to inquiries, resolving issues, and handling complaints.
- Marketing and Promotion: Admins can create and manage marketing campaigns and promotions to attract and retain users.

## Admin & User Flow:



The project flow for a grocery-web app involves user actions such as browsing products, adding items to the cart, proceeding to checkout, providing shipping details, selecting payment methods, making payments, and receiving order confirmation. Admin actions include managing products, viewing and processing orders, managing customers, and updating product details.

## **5. PROJECT FLOW:**

Before starting to work on this project, let's see the demo.

**Demo link:-** [https://drive.google.com/file/d/1HLowcIqs2d8lxTprS2jqPmR4AOnUW8xD/view?usp=drive\\_link](https://drive.google.com/file/d/1HLowcIqs2d8lxTprS2jqPmR4AOnUW8xD/view?usp=drive_link)

**Use the code in: -**

[https://drive.google.com/drive/folders/1RP-29p9mf-bbLAK5r7S4HSF\\_Itai0i1G?usp=drive\\_link](https://drive.google.com/drive/folders/1RP-29p9mf-bbLAK5r7S4HSF_Itai0i1G?usp=drive_link)

or follow the videos below for better understanding.

## **6. API DOCUMENTATION:**

### **Milestone 1: Project Setup and Configuration:**

#### **1. Install required tools and software:**

- Node.js.
- MongoDB.
- Create-react-app.

#### **2. Create project folders and files:**

- Client folders.
- Server folders.

#### **3. Install Packages:**

#### **Frontend npm Packages**

- Axios.
- React-Router -dom.
- Bootstrap.
- React-Bootstrap.
- React-icons.

#### **Backend npm Packages**

- Express.
- Mongoose.
- Cors.

#### **Reference Link:-**

[https://drive.google.com/file/d/1Acv3Lx3PtJcOYkUjREWAZIoC-i6w96Tl/view?usp=drive\\_link](https://drive.google.com/file/d/1Acv3Lx3PtJcOYkUjREWAZIoC-i6w96Tl/view?usp=drive_link)

## Milestone 2: Backend Development:

- **Setup express server**

1. Create index.js file in the server (backend folder).
2. Create a .env file and define port number to access it globally.
3. Configure the server by adding cors, body-parser.

- **User Authentication:**

- Create routes and middleware for user registration, login, and logout.
- Set up authentication middleware to protect routes that require user authentication.

- **Define API Routes:**

- Create separate route files for different API functionalities such as users orders, and authentication.
- Define the necessary routes for listing products, handling user registration and login, managing orders, etc.
- Implement route handlers using Express.js to handle requests and interact with the database.

- **Implement Data Models:**

- Define Mongoose schemas for the different data entities like products, users, and orders.
- Create corresponding Mongoose models to interact with the MongoDB database.
- Implement CRUD operations (Create, Read, Update, Delete) for each model to perform database operations.

- **User Authentication:**

- Create routes and middleware for user registration, login, and logout.
- Set up authentication middleware to protect routes that require user authentication.

- **Error Handling:**

- Implement error handling middleware to catch and handle any errors that occur during the API requests.
- Return appropriate error responses with relevant error messages and HTTP status codes.

### **Reference Link:-**

[https://drive.google.com/file/d/18-gnCVAZdojBhl7QM0\\_yShH1JL5A6v32/view?usp=drive\\_link](https://drive.google.com/file/d/18-gnCVAZdojBhl7QM0_yShH1JL5A6v32/view?usp=drive_link)

## Milestone 3: Database:

### 1. Configure MongoDB:

- Install Mongoose.
- Create database connection.
- Create Schemas & Models.

### 2. Connect database to backend:

Now, make sure the database is connected before performing any of the actions through the backend. The connection code looks similar to the one provided below.

```
const mongoose = require("mongoose");

const db= 'mongodb://127.0.0.1:27017/grocery'
// Connect to MongoDB using the connection string

mongoose.connect(db, {
  useNewUrlParser: true,
  useUnifiedTopology: true,
}).then(() => {
  console.log(`Connection successful`);
}).catch((e) => {
  console.log(`No connection: ${e}`);
});
```

### 3. Configure Schema:

Firstly, configure the Schemas for MongoDB database, to store the data in such pattern. Use the data from the ER diagrams to create the schemas. The schemas are looks like for the Application.

```

const mongoose = require('mongoose');

const userSchema = new mongoose.Schema({
  firstname: { type: String },
  lastname: { type: String },
  username: { type: String, unique: true },
  email: { type: String },
  password: { type: String }
});

// category schema
const categorySchema = new mongoose.Schema({
  category: { type: String, required: true, unique: true },
  description: { type: String }
});

const productSchema = new mongoose.Schema({
  productName: { type: String, required: true },
  description: { type: String, required: true },
  price: { type: Number, required: true },
  image: { type: String, required: true },
  category: { type: String, ref: 'Category', required: true },
  countInStock: { type: Number, required: true, min: 0 },
  rating: { type: Number, required: true },
  dateCreated: { type: Date, default: Date.now }
});

const addToCartSchema = new mongoose.Schema({
  userId: { type: String, required: true },
  productId: { type: String, required: true },
  quantity: { type: Number, minimum: 1, required: true, default: 1 },
});

const orderSchema = new mongoose.Schema({
  firstname: { type: String, required: true },
  lastname: { type: String, required: true },
  user: { type: String, ref: 'User', required: true },
  phone: { type: String, required: true },
  productId: { type: String, required: true },
  productName: { type: String, required: true },
  quantity: { type: String, default: 1 },
  price: { type: String, required: true },
  status: { type: String, enum: ['Pending', 'Confirmed', 'Shipped', 'Delivered', 'Canceled'],
  default: 'Pending' },
  paymentMethod: { type: String, required: true },
  address: { type: String, required: true },
  createdAt: { type: Date, default: Date.now }
});

const models = {
  Users: mongoose.model('User', userSchema),

```

```

  Category: mongoose.model('Category', categorySchema),
  Product: mongoose.model('Product', productSchema),
  AddToCart: mongoose.model('AddToCart', addToCartSchema),
  Order: mongoose.model('Order', orderSchema),
};

module.exports = models;

```

## Milestone 4: Frontend Development:

### 1. Setup React Application:

- Create React application.
- Configure Routing.
- Install required libraries.

### 2. Design UI components:

- Create Components.
- Implement layout and styling.
- Add navigation.



#### 4. Implement frontend logic:

- Integration with API endpoints.
- Implement data binding.

#### Reference:-

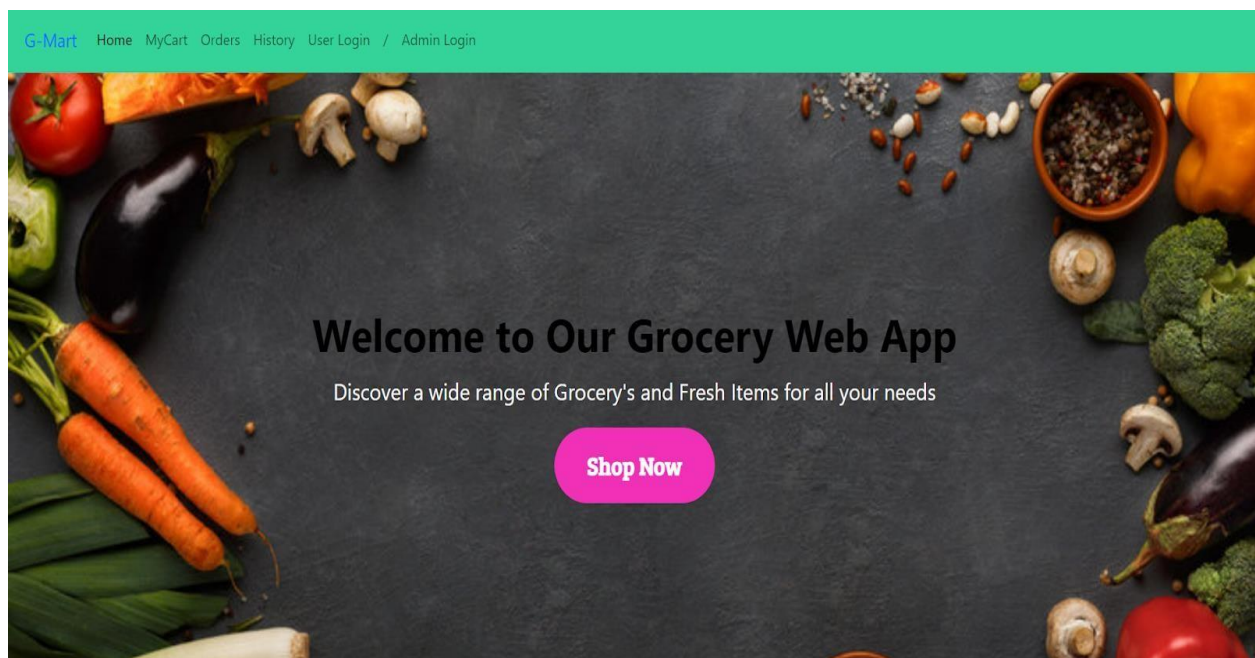
[https://drive.google.com/file/d/1MFQ7NIQ02ynLioEMySPpEzdX-c0i6Wer/view?usp=drive\\_link](https://drive.google.com/file/d/1MFQ7NIQ02ynLioEMySPpEzdX-c0i6Wer/view?usp=drive_link)

## 7. USER INTERFACE

### Milestone 5: Project Implementation:

Finally, after finishing coding the projects we run the whole project to test it's working process and look for bugs. Now, let's have a final look at the working of our Darshan Ease.

#### Landing page:-



#### Login Page:-



## Login

Email

Password

Login

Don't have an account? [Sign Up](#)

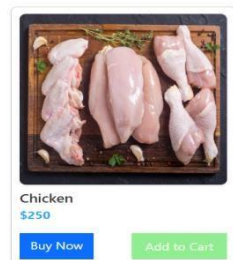
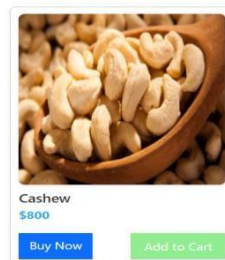
## Items Page:-

### Search By Product Name

### Filter By Category

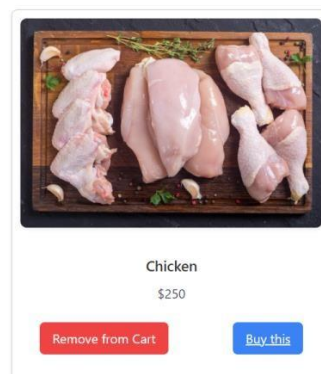
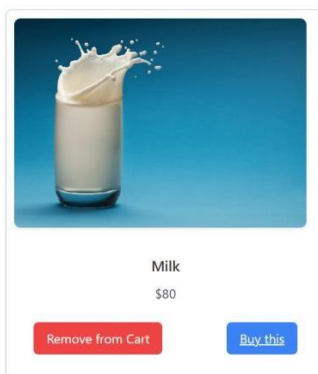
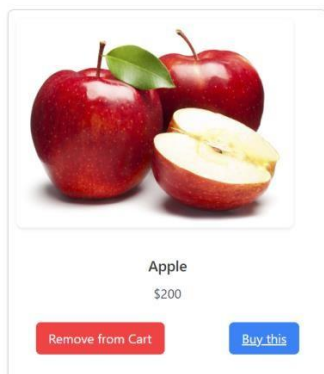
all

#### Products



## My Cart:-

### My Cart



# My Orders Page:-

[G-Mart](#) [Home](#) [MyCart](#) [Orders](#) [History](#) [Logout](#)

My Orders

**Order ID:** 6614b085c30b51d3c700f20a

**Name:** syed arshad

**Phone:** 9505221870

**Date:** 2024-04-09T03:05:41.563Z

**Price:** 400

**Status:** Pending

**Payment Method:** credit

# My History Page:-

[G-Mart](#) [Home](#) [MyCart](#) [Orders](#) [History](#) [Logout](#)

My History

**Order ID:** 6614a8ddc30b51d3c700f1b4

**Name:** syed arshad

**Phone:** 9505221870

**Date:** 2024-04-09T02:36:47.498Z

**Price:** 400

**Status:** Delivered

**Payment Method:** debit

[G-Mart](#) [Home](#) [MyCart](#) [Orders](#) [History](#) [Logout](#)

My History

**Order ID:** 6614a8ddc30b51d3c700f1b4

**Name:** syed arshad

**Phone:** 9505221870

**Date:** 2024-04-09T02:36:47.498Z

**Price:** 400

**Status:** Delivered

**Payment Method:** debit

# Place Order Page:-

[G-Mart](#) [Home](#) [MyCart](#) [Orders](#) [History](#) [Logout](#)

localhost:3000/login

Order Details

**First Name:**

Enter your first name

**Last Name:**

Enter your last name

**Phone:**

Enter your phone number

**Quantity:**

Enter the quantity

**Address:**

Enter your address

**Payment Method:**

Cash on Delivery (COD)

Submit

# Admin Dashboard Page:

Grocery Web App

DashboardUsersProductsAdd productOrdersLogout

Dashboard

Product Count

6 Products

View Products

User Count

1 Users

View Users

Order Count

2 Orders

View Orders

Add Product

Add

## Users Page:-

Grocery Web App

DashboardUsersProductsAdd productOrdersLogout

Users

s/no	Userid	User name	Email	Operation
1	6614a859c30b51d3c700f1a0	syed	syed@gmail.com	<div><div></div>view</div>

## Add Product page:-

Grocery Web App

DashboardUsersProductsAdd productOrdersLogout

Add Product

Product Name

Enter product name

Rating

Enter product rating

Price

Enter product price

Image URL

Enter image URL

Category

Select Category

Count in Stock

Enter count in stock

Description

Enter product description

Add Product

## Admin Orders Page:-

Grocery Web App

DashboardUsersProductsAdd productOrdersLogout

Orders

Order ID: 6614a8ddc30b51d3c700f1b4

Fullname: syed arshad

Phone: 9505221870

Product ID: 660e84641c659d0b2b10e135

Quantity: 2

Total price: 400

Payment Method: debit

Address: hyderabad

Created At: 2024-04-09T02:36:47.498Z

Status: Delivered

Delivered

Order ID: 6614b085c30b51d3c700f20a

Fullname: syed arshad

Phone: 9505221870

Product ID: 660e84641c659d0b2b10e135

Quantity: 2

Total price: 400

## **8. TESTING**

### **➤ Manual testing using Postman:**

- Used for verifying API endpoints.
- Allows testing different HTTP methods (GET, POST, PUT, DELETE).
- Helpful for checking status codes, responses, and error handling manually.

### **➤ Unit tests with Jest for backend:**

- Automated testing of individual functions or modules.
- Ensures backend logic works as expected.
- Useful for regression testing and improving code reliability.

## **9. KNOWN ISSUES**

- ✓ Cart sometimes does not update in real time.
- ✓ Error messages in the login form are unclear or missing.
- ✓ No loading indicator during cart or login actions.
- ✓ Cart data may reset on page reload.
- ✓ Login form does not handle slow network responses well.

## **10. FUTURE ENHANCEMENTS**

### **1. Add payment gateway integration:**

- Integrate secure and reliable payment gateways like Razorpay, Stripe, or PayPal to enable online payments.

### **2. Enable real-time order tracking:**

- Implement tracking features using technologies like WebSockets or Firebase for real-time updates on order status.

### 3. Implement user reviews

- Allow users to leave feedback and rate products or services, improving credibility and helping future customers.

### 4. Introduce multi-language support

- Add localization features to support multiple languages and expand usability to diverse user groups.

### 5. Develop a mobile application

- Create Android and iOS apps for a seamless shopping experience across devices.

### 6. Add AI-based recommendation system

- Suggest products to users based on their browsing and purchase history using machine learning.

## **DEMO LINK:**

[https://drive.google.com/file/d/1HLowcIqs2d8lxTprS2jqPmR4AOnUW8xD/view?usp=drive\\_link](https://drive.google.com/file/d/1HLowcIqs2d8lxTprS2jqPmR4AOnUW8xD/view?usp=drive_link)

